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## PATENT ABSTRACTS OF JAPAN

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states:

(71) Applicant: **MITSUI PETROCHEM IND LTD**

(72) Inventor: **YUKIMUNE TAKAHITO  
HARA YASUHIRO**

(74) Representative:

### (54) PRODUCTION OF TAXANE-TYPE DITERPENE

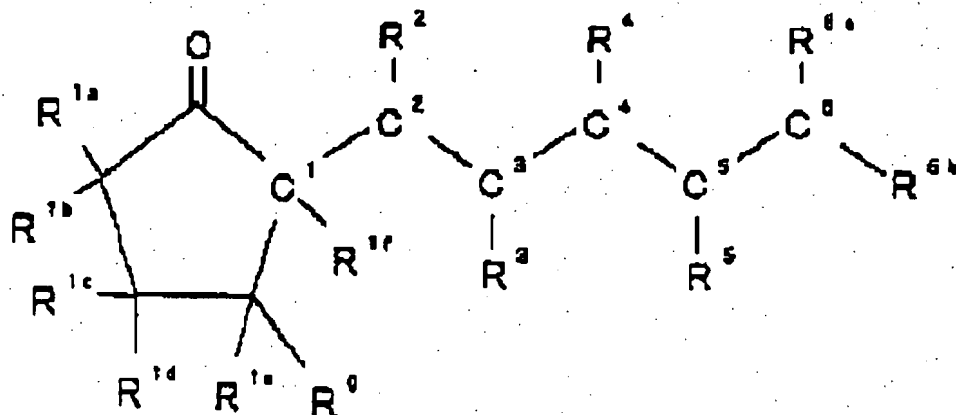
(57) Abstract:

**PURPOSE:** To provide a method for easily producing taxane-type diterpenes used for therapeutic agents, etc., for ovary cancer, breast cancer, lung cancer, etc., by tissue culturing the cultured cell or cultured tissue of a plant producing a taxane-type diterpene in a medium containing cyclic polysaccharides, and recovering the products from the cultured substances.

**CONSTITUTION:** This method for producing a taxane-type diterpene comprises tissue culturing the cultured cell and/or cultured tissue of a plant (e.g. *Taxus brevifolia* NUTT) producing the taxane-type diterpene (e.g. Taxol) in a culture medium containing cyclic polysaccharides (e.g.  $\alpha$ -cyclodextrin) in the presence of a jasmonic acid expressed by the formula {R0 is a group of the formula (CH<sub>2</sub>)<sub>n</sub>COR<sup>7</sup> [R<sup>7</sup> is hydroxy, OM (M is an alkali metal atom, an alkaline earth metal atom or NH<sub>4</sub>), an alkoxy, etc.; (n) is an integer of 1-7]; R<sup>1a</sup>-R<sup>1f</sup> are each H, OH, a 1-6C alkyl or a 1-6C alkoxy; R<sup>2</sup> to R<sup>5</sup> and R<sup>6a</sup> are each H or a 1-6C alkyl; R<sup>6b</sup> is OH, -O-carbohydrate residue, etc.]

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HARA YASUHIRO;**Assignee: **mitsui petrochem ind ltd**  
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Abstract:


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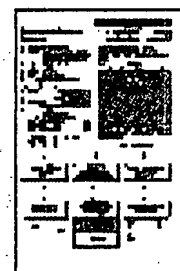
**CONSTITUTION:** This method for producing a taxane-type diterpene comprises tissue culturing the cultured cell and/or cultured tissue of a plant (e.g. *Taxus brevifolia* NUTT) producing the taxane-type diterpene (e.g. Taxol) in a culture medium containing cyclic polysaccharides (e.g.  $\alpha$ -cyclodextrin) in the presence of a jasmonic acid expressed by the formula (R0 is a group of the formula (CH<sub>2</sub>)<sub>n</sub>COR7 [R7 is hydroxy, OM (M is an alkali metal atom, an alkaline earth metal atom or NH<sub>4</sub>), an alkoxy, etc.; (n) is an integer of 1-7]; R1a-R1f are each H, OH, a 1-6C alkyl or a 1-6C alkoxy; R2 to R5 and R6a are each H or a 1-6C alkyl; R6b is OH, -O-carbohydrate residue, etc.) and recovering the products from the tissue cultured substance to obtain the taxane-type diterpene used for the therapeutic agents, etc., for the ovary cancer, breast cancer, lung cancer, etc.

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Family:

PDF	Publication	Pub. Date	Filed	Title
	<a href="#">US6465221</a>	Oct. 15, 2002	March 19, 2001	Method of producing a taxane-type diterpene
	<a href="#">JP9065889A2</a>	March 11, 1997	Aug. 28, 1995	PRODUCTION OF TAXANE-TYPE DITERPENE
	<a href="#">JP8205882A2</a>	Aug. 13, 1996	Nov. 20, 1995	PRODUCTION OF TAXANE TYPE DITERPENE
	<a href="#">JP8163991A2</a>	June 25, 1996	Dec. 15, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE

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	JP8140690	June 4, 1996	Nov. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	EP0727492B1	Jan. 31, 2001	Nov. 27, 1995	A method of producing a taxane-type diterpene
	EP0727492A3	Oct. 16, 1996	Nov. 27, 1995	A method of producing a taxane-type diterpene
	EP0727492A2	Aug. 21, 1996	Nov. 27, 1995	A method of producing a taxane-type diterpene
	DE69520034T2	July 19, 2001	Nov. 27, 1995	VERFAHREN ZUR HERSTELLUNG EINES DITERPENS VOM TAXANTYP
	DE69520034C0	March 8, 2001	Nov. 27, 1995	METHODE ZUR HERSTELLUNG EINES DITERPENS VOM TYP TAXAN
	CN1132792A	Oct. 9, 1996	Nov. 25, 1995	METHOD OF PRODUCING TAXANE-TYPE DITERPENE
	CN1068381B	July 11, 2001	Nov. 25, 1995	METHOD OF PRODUCING TAXANE-TYPE DITERPENE
	CA2163614AA	May 26, 1996	Nov. 23, 1995	METHOD OF PRODUCING A TAXANE-TYPE DITERPENE
13 family members shown above				

Other Abstract  
Info:

CHEMABS 125(11)140674X CAN125(11)140674X CHEMABS 125(17)219760F DERC96-316322  
DERABS C96-316322 DERABS C96-371842



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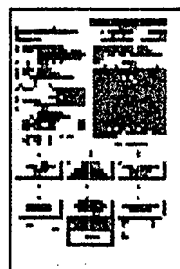
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